

In the Claims

What is claimed is:

1. (Currently Amended) A method for upgrading documents for processing by processing functionality, comprising:

inputting a structured document having particular ~~features~~editing controls associated therewith into a particular version of the processing functionality;

determining whether each of the particular ~~features~~editing controls matches a set of expected ~~features~~editing controls associated with the particular version of the processing functionality; and

modifying the particular ~~features~~editing controls of the input structured document so that the particular ~~features~~editing controls match the set of expected ~~features~~editing controls to thereby provide a modified structured document.

2. (Original) A method according to claim 1, further comprising:

transforming the modified structured document into another document suitable for presentation;

displaying the other document suitable for presentation using the processing functionality to provide a displayed document; and

editing the displayed document.

3. (Original) The method according to claim 1, wherein the input structured document is expressed in a markup language that uses tags pertaining to subject matter fields in the input structured document.

1 4. (Original) The method according to claim 3, wherein the input structured
2 document is expressed in the extensible markup language (XML).

3
4 5. (Original) The method according to claim 2, wherein the other document
5 suitable for presentation is expressed in a markup language that uses tags pertaining to
6 visual features associated with the presentation of the other document.

7
8 6. (Original) The method according to claim 5, wherein the other document
9 suitable for presentation is expressed in the hypertext markup language (HTML).

10
11 7. (Original) The method according to claim 1, wherein the modifying uses
12 an upgrade module that provides a transformation function using extensible stylesheet
13 language (XSL).

14
15 8. (Original) The method according to claim 2, wherein the other document
16 suitable for presentation comprises an electronic form having at least one user data entry
17 field therein.

18
19 9. (Currently Amended) The method according to claim 1, wherein the
20 determining of whether each of the particular ~~features~~editing controls matches a set of
21 expected ~~features~~editing controls associated with the particular version of the processing
22 functionality comprises:

23 determining whether the input structured document contains each ~~node~~editing
24 control expected by the particular version of the processing functionality.

1 10. (Currently Amended) The method according to claim 9, wherein the
2 modifying of the particular ~~features~~editing controls of the input structured document to
3 produce the modified structured document comprises:

4 creating each ~~node~~editing control expected by the particular version of the
5 processing functionality to provide created ~~node~~editing controls;

6 copying ~~node~~editing control content from the input structured document into
7 corresponding created ~~nodes~~editing controls in the modified structured document for
8 those ~~nodes~~editing controls in the input structured document that have counterpart
9 ~~nodes~~editing controls expected by the particular version of the processing functionality;
10 and

11 creating default ~~node~~editing control content in corresponding ~~nodes~~editing
12 controls in the modified structured document for those created ~~nodes~~editing controls that
13 do not have counterpart ~~nodes~~editing controls in the input structured document.

14
15 11. (Currently Amended) The method according to claim 1, wherein the
16 determining of whether each of the particular ~~features~~editing controls matches a set of
17 expected ~~features~~editing controls associated with the particular version of the processing
18 functionality comprises:

19 determining whether the input structured document lacks ~~nodes~~editing controls
20 that were previously classified as optional but are no longer classified as optional in the
21 particular version of the processing functionality.

22
23 12. (Currently Amended) The method according to claim 11, wherein the
24 modifying of the particular ~~features~~editing controls of the input structured document to
25 produce the modified structured document comprises:

1 creating new ~~nodes~~editing controls in the modified structured document providing
2 that the new ~~nodes~~editing controls are lacking in the input structured document and
3 providing that the new ~~nodes~~editing controls are required in the particular version of the
4 processing functionality although considered optional by its schema.

5
6 13. (Currently Amended) The method according to claim 1, wherein the
7 expected ~~features~~editing controls are specified by a schema associated with the particular
8 version of the processing functionality.

9
10 14. (Currently Amended) The method according to claim 1, wherein the
11 expected ~~features~~editing controls are specified by some information other than a schema
12 associated with the particular version of the processing functionality.

13
14 15. (Original) The method according to claim 1, wherein the input structured
15 document corresponds to a markup language document generated by an earlier version of
16 the processing functionality compared to the particular version.

17
18 16. (Original) The method according to claim 1, wherein the input structured
19 document corresponds to a markup language document generated by a later version of the
20 processing functionality compared to the particular version.

21
22 17. (Original) The method according to claim 1, wherein the modifying is
23 performed using an upgrade module, and wherein the upgrade module is developed
24 without knowledge of any requirements of any input structured document.

1 18. (Currently Amended) ~~An apparatus including logic configured to~~
2 ~~implement the inputting, determining, and modifying recited in claim 1~~ The method
3 according to claim 1, wherein modifying of the particular editing controls of the input
4 structured document to produce the modified structured document comprises:

5 creating new editing controls in the modified structured document
6 providing that the new editing controls are lacking in the input structured document and
7 providing that the new editing controls are required in the particular version of the
8 processing functionality.

9
10 19. (Currently Amended) ~~A computer readable medium having machine~~
11 ~~readable instructions for implementing the inputting, determining, and modifying recited~~
12 ~~in claim 1~~ The method according to claim 1, wherein modifying of the particular editing
13 controls of the input structured document to produce the modified structured document
14 comprises:

15 omitting from the modified structured document existing editing controls
16 in the input structured document that are not required in the particular version of the
17 processing functionality.

18
19 20. (Currently Amended) A method for generating an upgrade module for
20 upgrading documents for processing by processing functionality, comprising:

21 determining whether a particular version of the processing functionality has been
22 created that warrants generation of the upgrade module; and

23 generating the upgrade module if the creation of the particular version warrants
24 the generation of the upgrade module, wherein the upgrade module is configured to
25 modify an input structured document having particular editing controls associated

1 therewith to create an updated document which conforms to a set of expected editing
2 controls associated with the particular version of the processing functionality.

3
4 21. (Original) The method of claim 20, wherein the upgrade module is
5 formed using the extensible stylesheet language (XSL).

6
7 22. (Currently Amended) ~~An apparatus including logic configured to~~
8 ~~implement the determining and generating recited in claim 20~~ The method according to
9 claim 20, wherein the update module is configured to create new editing controls in the
10 input structured document such that the updated document conforms to the set of
11 expected editing controls associated with the particular version of the processing
12 functionality.

13
14 23. (Currently Amended) ~~A computer readable medium having machine~~
15 ~~readable instructions for implementing the determining and generating recited in claim 20~~
16 The method according to claim 20, wherein the update module is configured to omit
17 editing controls in the input structured document from updated document such that the
18 updated document conforms to the set of expected editing controls associated with the
19 particular version of the processing functionality.

20
21 24. (Currently Amended) An apparatus for processing documents,
22 comprising:

23 an upgrade module configured to modify an input structured document having
24 particular features associated therewith so that the input structured document conforms to
25

1 a set of expected ~~features~~editing controls associated with a particular version of the
2 apparatus, to thereby produce a modified structured document; and

3 a transformation module configured to transform the modified structured
4 document into another document suitable for presentation.

5
6 25. (Currently Amended) An apparatus for generating an upgrade module for
7 upgrading documents for processing by processing functionality, comprising:

8 logic configured to determine whether a particular version of the processing
9 functionality has been created that warrants generation of the upgrade module; and

10 logic configured to generate the upgrade module if the creation of the particular
11 version warrants the generation of the upgrade module, wherein the upgrade module is
12 configured to modify an input structured document having particular editing controls
13 associated therewith to create an updated document which conforms to a set of expected
14 editing controls associated with the particular version of the processing functionality.

15
16 26. (Currently Amended) A computer readable medium having stored thereon
17 an information structure, comprising:

18 an upgrade module information structure configured to modify an input structured
19 document having particular ~~features~~editing controls associated therewith so that the input
20 structured document conforms to a set of expected ~~features~~editing controls associated
21 with a particular version of a processing apparatus, to thereby produce a modified
22 structured document; and

23 a transformation module information structure configured to transform the
24 modified structured document into another document suitable for presentation.

25